

## NASA Center for Climate Simulation Data Services

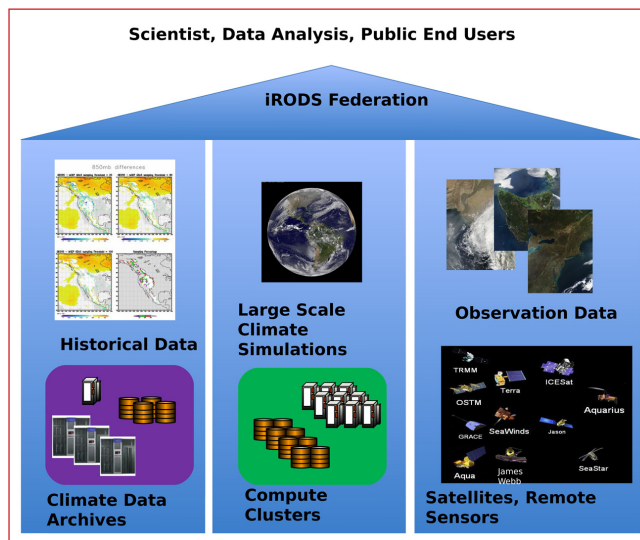
### Science Mission Directorate

The NASA Center for Climate Simulation (NCCS) is using the Integrated Rule-Oriented Data System (iRODS) to develop a comprehensive set of data service capabilities specifically designed for climate research. These capabilities are likely to influence future climate research, while paving the way for new technological advances. NCCS is supporting NASA's participation in the Intergovernmental Panel on Climate Change (IPCC) 5th Assessment Report (AR5), due in 2014. AR5 requirements will be addressed by creating a sustained organizational capacity to handle the IPCC data and future workload.

In addition, services will be created specifically to support NCCS's archive management and data preservation efforts, as well as a range of climate research community requirements. These community research requirements will include distribution of observational data for model validation, integration of high-performance analysis and workflow management tools, and provisioning of cloud resources for broader use in climate research.

Collectively, these activities define a new mission thrust for NCCS—an advanced scientific data services role—that will become an important part of NCCS operations in the coming years.

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NASA Center for Climate Simulation (NCCS) data services will provide an array of climate research data and applications. *Dan Duff, NASA/Goddard*